

COMPACT DISC PLAYER

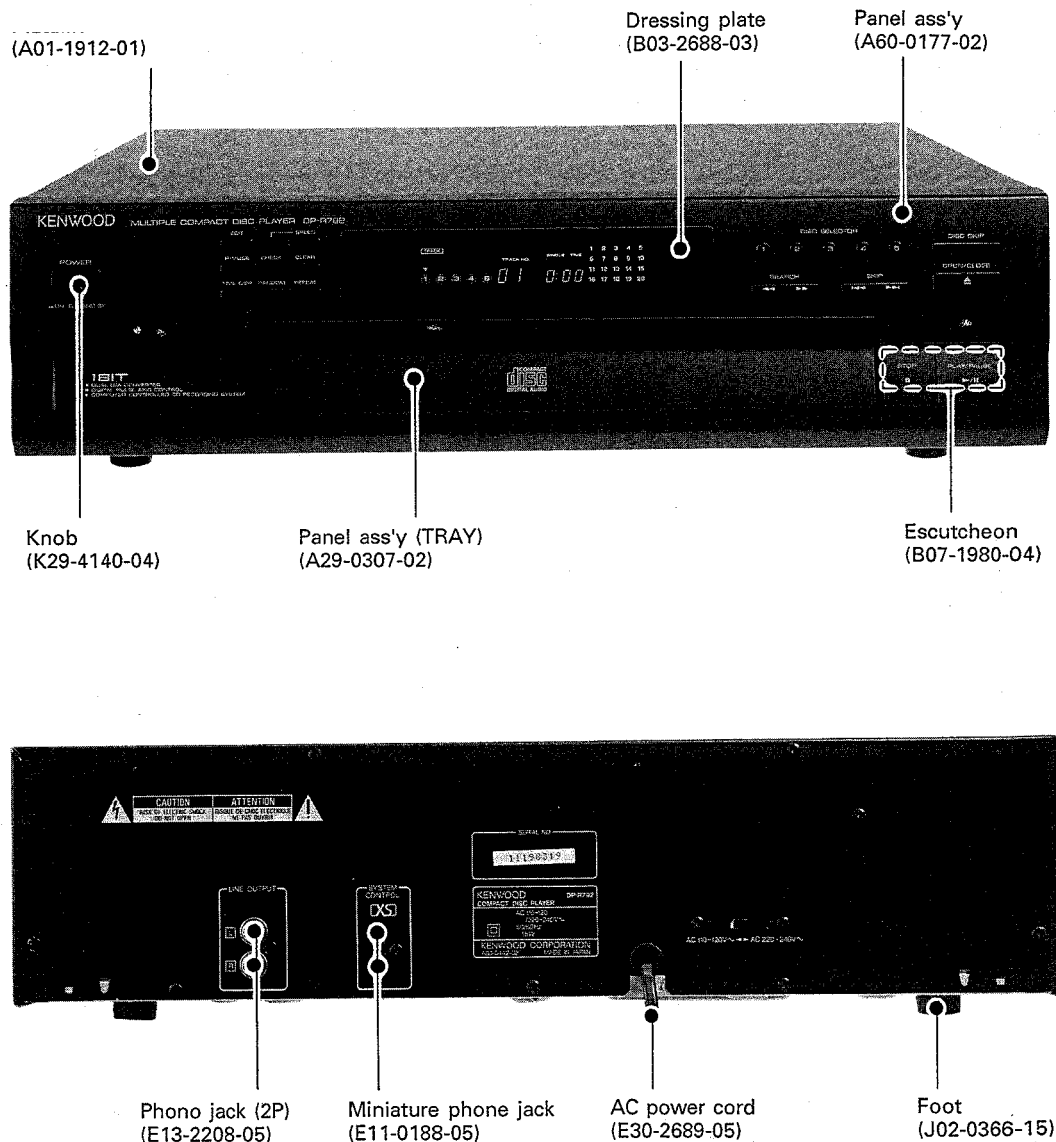
# DP-R792/R892/R4440

## SERVICE MANUAL

**U.S.A. Use only**

# KENWOOD

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B51-4462-00 (O) 2365



In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Corp. certifies this equipment conforms to DHHS Regulations No. 21 CFR 1040. 10, Chapter 1, Subchapter J.

**DANGER : Laser radiation when open and interlock defeated.  
AVOID DIRECT EXPOSURE TO BEAM.**

**Photo is DP-R792.**

# DP-R792/R892/R4440

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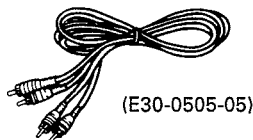
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\* Refer to DP-M991/ M6630 / M7730 service manual (B51-4281-00) and DP-7030 (B51-4244-00) if need circuit description CXA1571, TC9237, (DP-M serie) CXA1372Q, CXD2500Q (DP-7030).

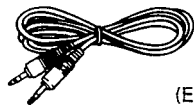
### ACCESSORIES

• Audio cord .....



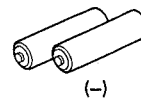
(E30-0505-05)

• System control cord .....



(E30-1392-05)

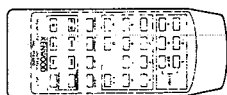
• Batteries (R6 / AA) .....



(-)

• Remote control unit .....

(DP-R4440 ONLY)



(A70-0508-05)

### CAUTION

#### • Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

1. Turn the power ON but do not load a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Turn the power OFF.

#### • Caution of the service manual

This manual is available for U.S.A. models, DP-R792, DP-R892 and DP-R4440. Before using this manual, please check model's name. Control pcb ass'y (X32) parts list is written the parts for all of 3 models. Also refer to comparison table in schematic diagram.

TRACK					1	2	3	4	5
TRACK NO.					6	7	8	9	10
1	2	3	4	5	no-d 1 5C				
					11	12	13	14	15
					16	17	18	19	20

Model name	Control pcb	Mechanism
DP-R792	X32-1900-12 (K,P)	X92-1610-10
DP-R892	X32-1900-11 (K,P)	X92-1610-10
DP-R4440	X32-1900-10 (K,P)	X92-1610-10

# DP-R792/R892/R4440

## EXTERNAL VIEW

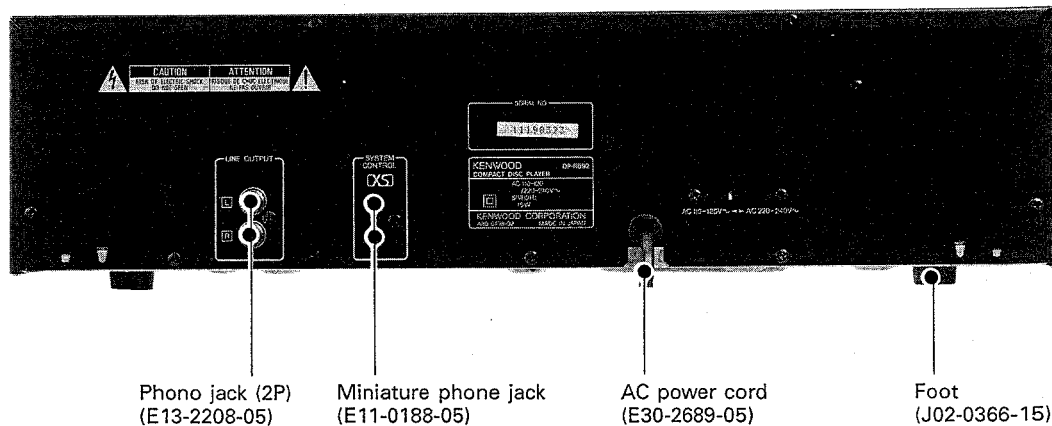
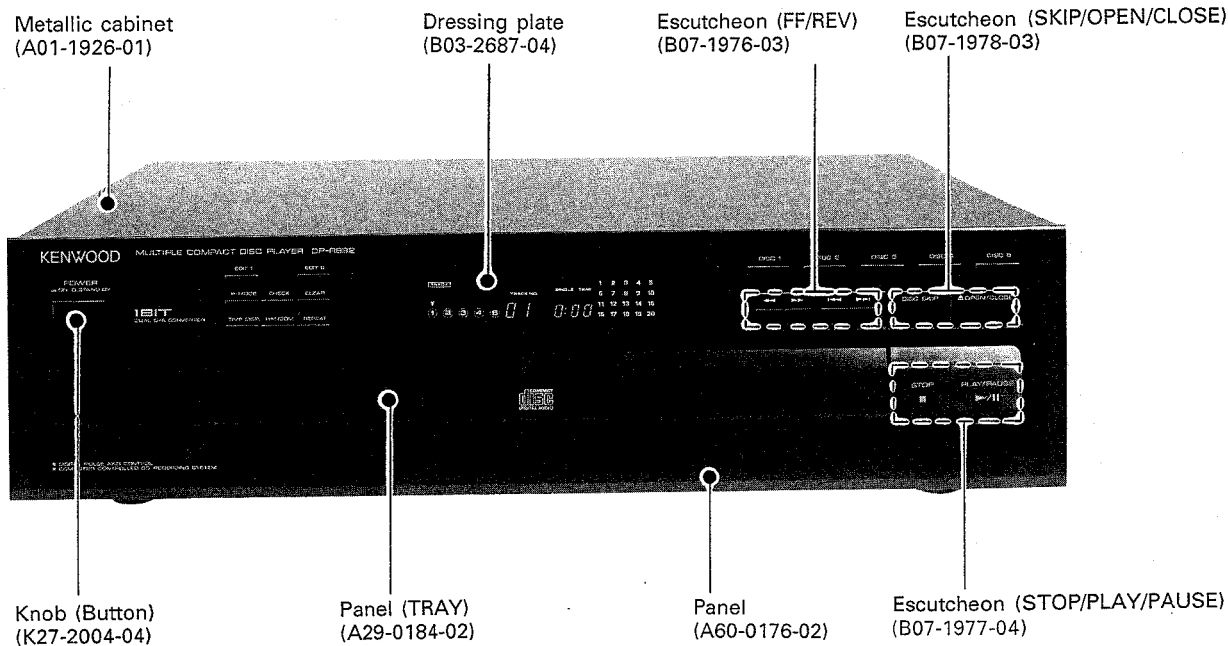


Photo is DP-R892.

# DP-R792/R892/R4440

## EXTERNAL VIEW

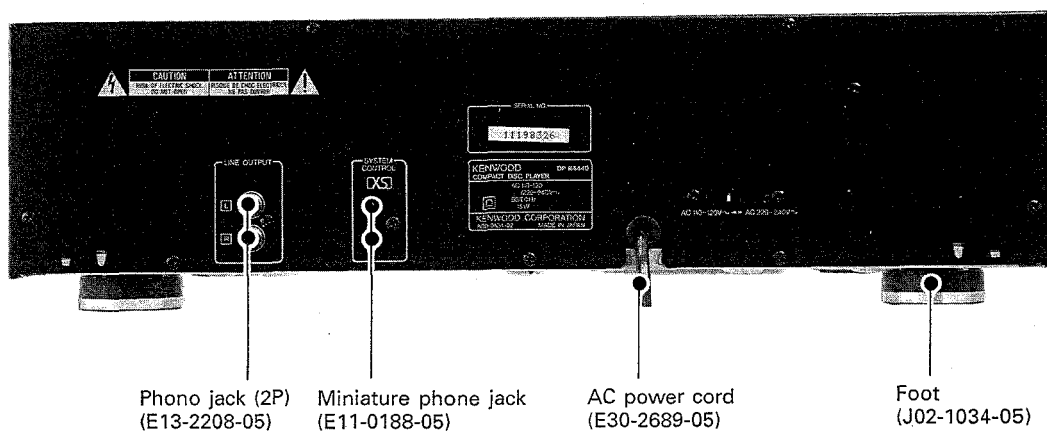
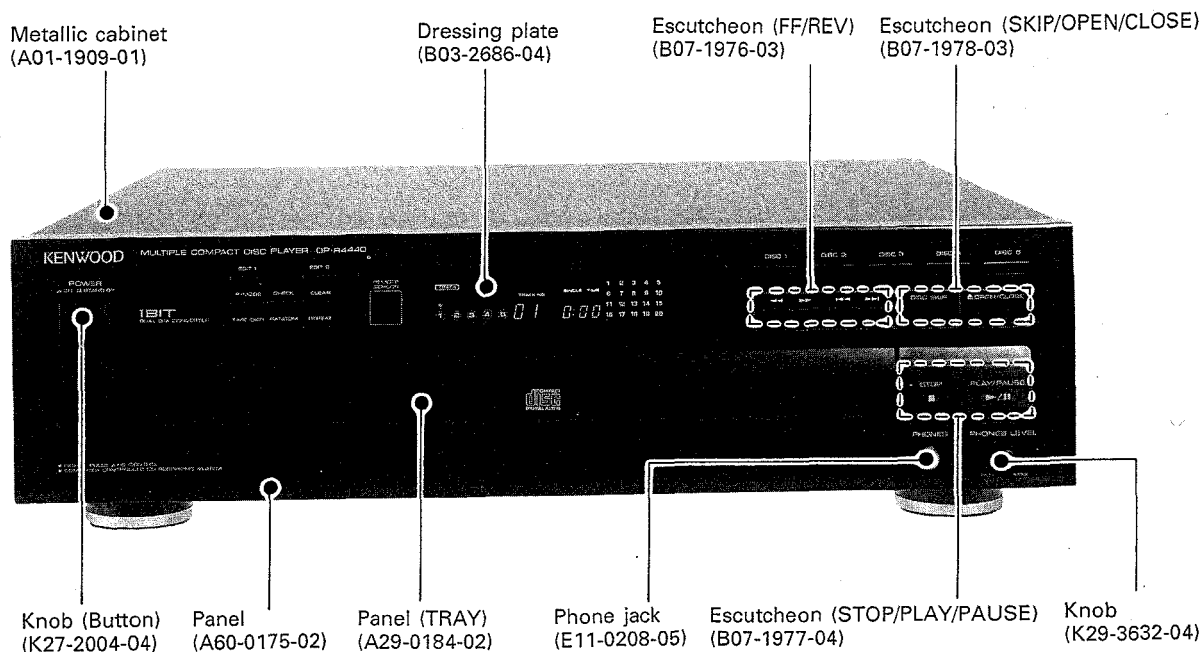


Photo is DP-R4440.



# DP-R792/R892/R4440

## CONTROLS

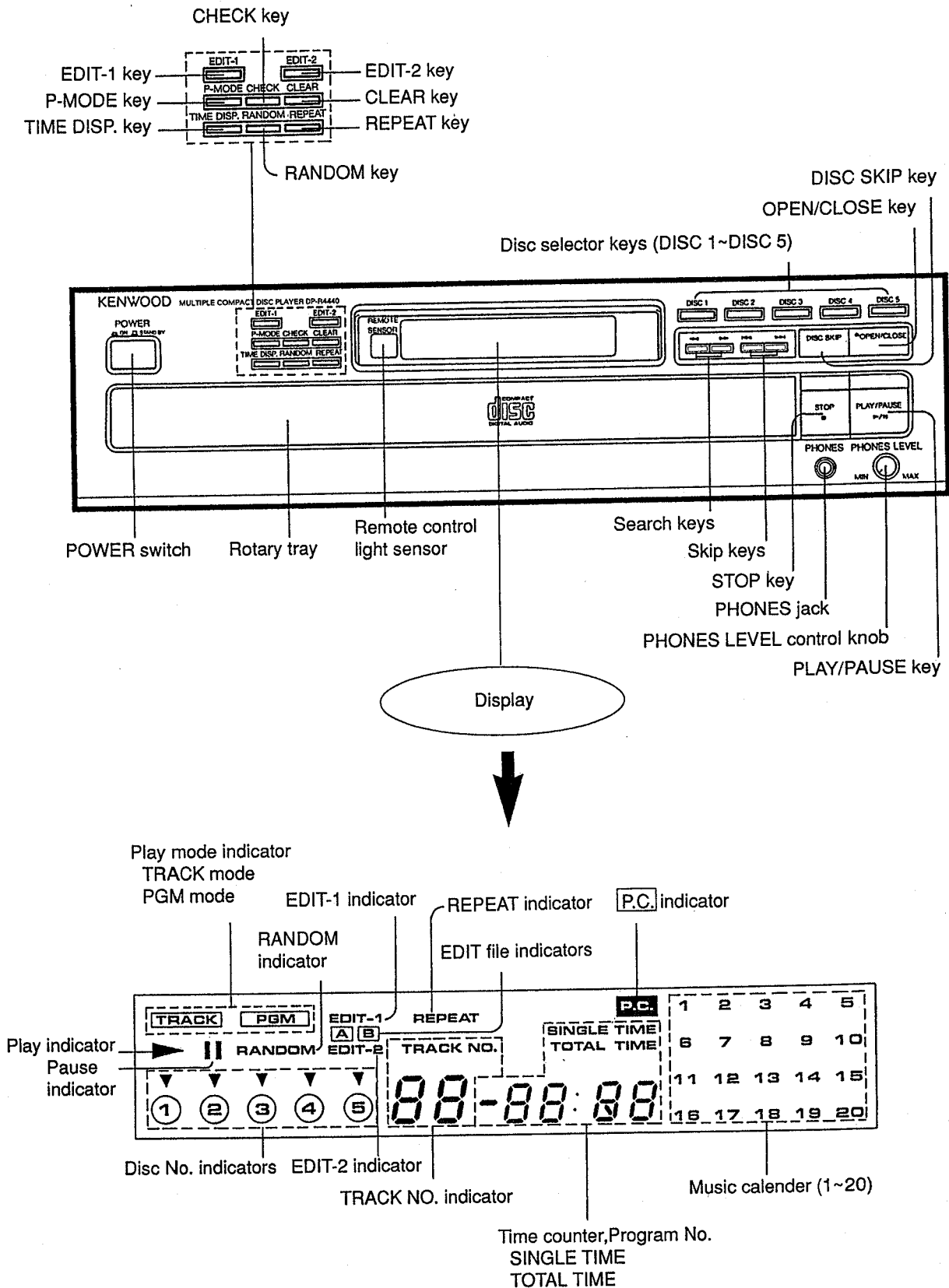


Fig. is DP-R4440.

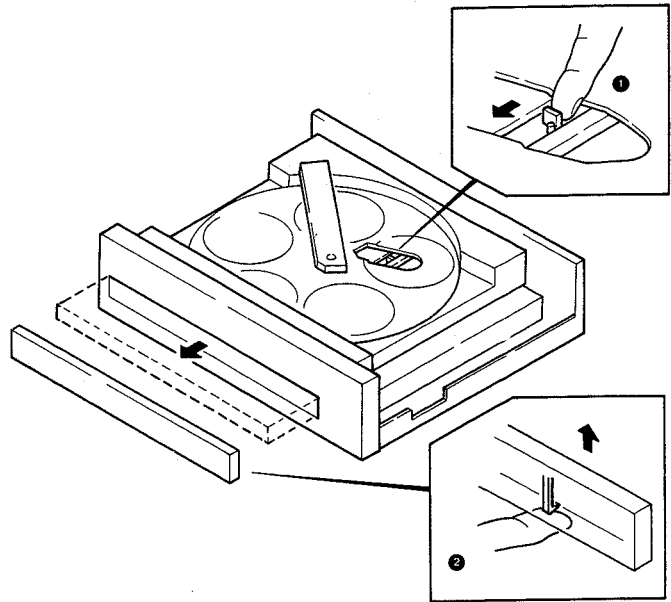
# DP-R792/R892/R4440

## DISASSEMBLY FOR REPAIR

\* Remove the metallic cabinet before the following procedure.

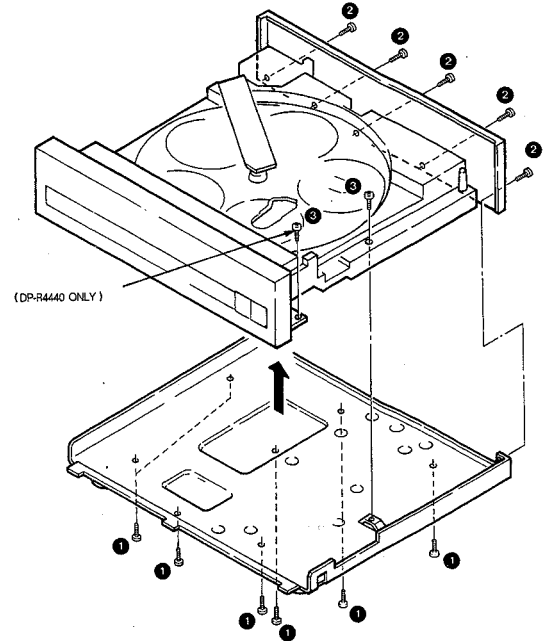
### 1. How To Remove the Tray and Tray panel

1. Slide the lever frontwards (❶) until the tray comes out.
2. Pull the tray out fully.
3. Remove the tray panel upwards (❷).



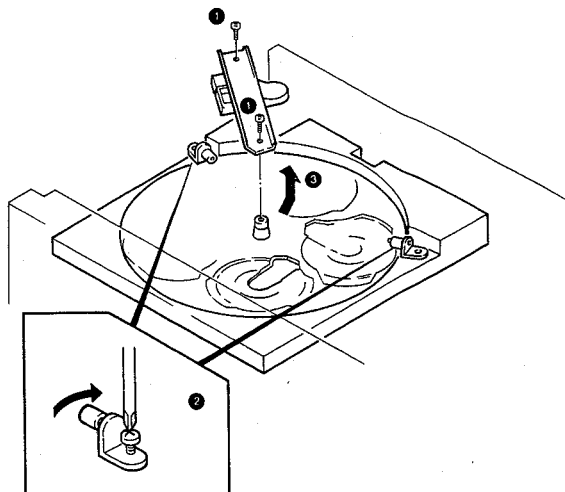
### 2. How To Remove the Bottom Plate

Remove bottom plate screws (❶), rear panel screws (❷) and chassis screws (❸).



### 3. How to Remove Rotary Tray

1. Remove clumper screws (❶).
2. Loosen roller screws (❷) and turn them to free the tray.
3. Remove the rotary tray upwards (❸).



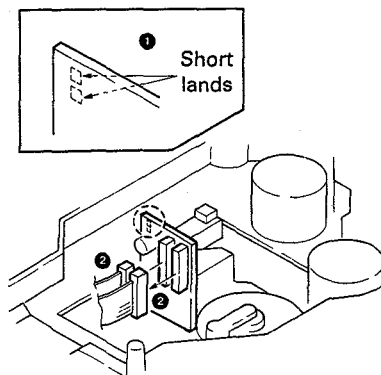
# DP-R792/R892/R4440

## DISASSEMBLY FOR REPAIR

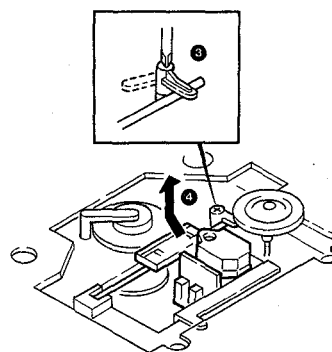
### 4. How to Replace Pickup

\* Remove the rotary tray before the following procedures.

1. Short the short lands (①).
2. Remove 2 connectors (②).

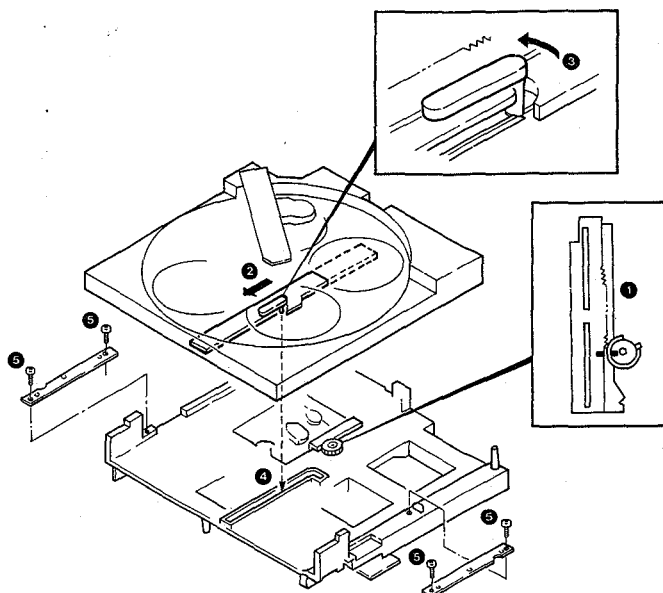


3. Turn the stopper (③).
4. Remove the pickup upwards (④).



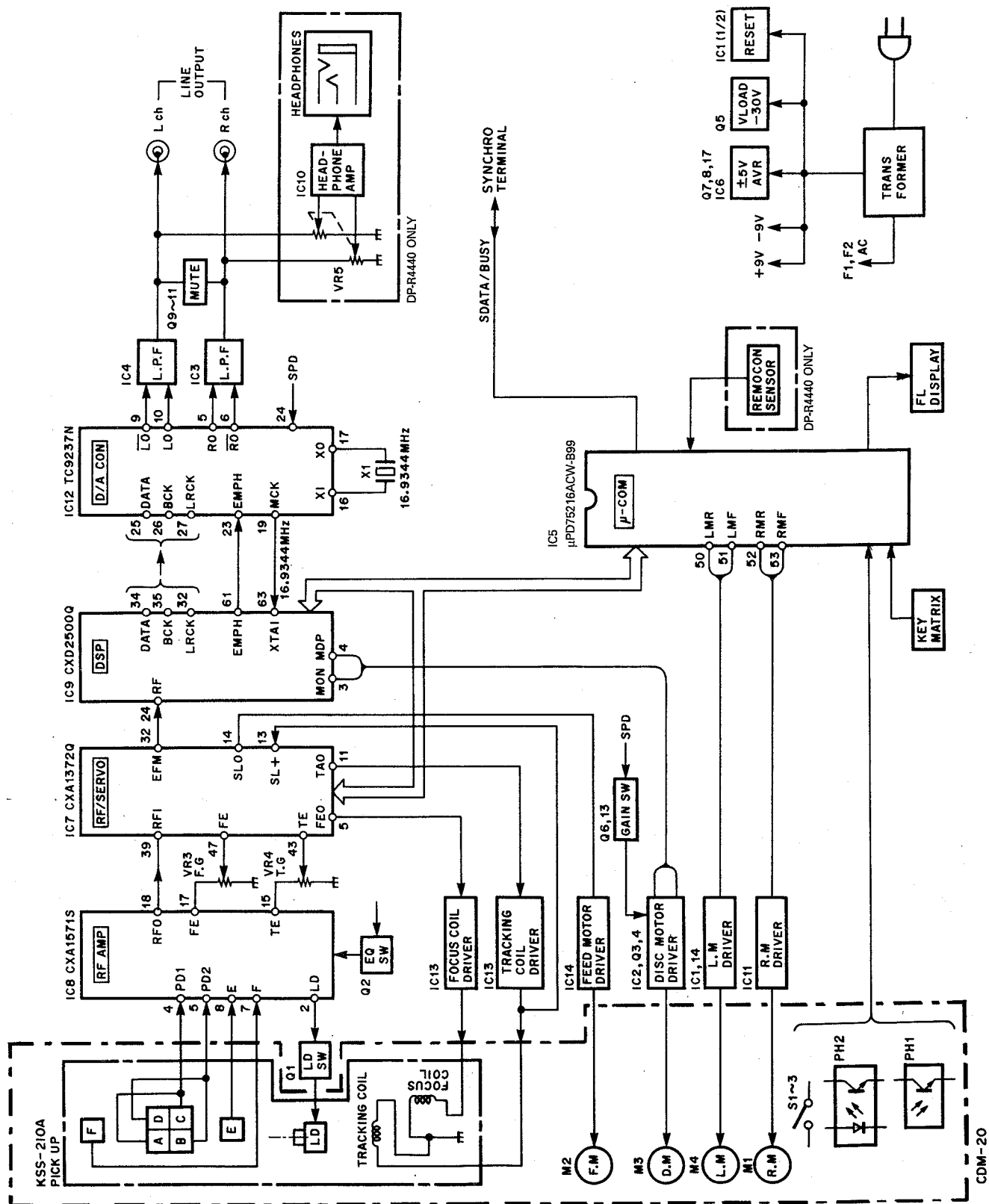
### 5. How to Mount Rotary Tray

1. Check the pickup mechanism is at down position and meet the mark of the gear to the boss of the pickup mechanism up/down gear (①).
2. Move the slide gear frontwards (②) and fix the lock lever to slide gear (③).
3. Insert the lock lever pin to the groove of the chassis (④).
4. Fix the hardware with screws (⑤).



# DP-R792/R892/R4440

## BLOCK DIAGRAM



## CIRCUIT DESCRIPTION

### 1. TEST MODE

#### • Setting the test mode

The microprocessor built in the unit can be put to TEST MODE by just short-circuiting the TEST pin #5 and #6 when set to power ON.

DP-R792/R892/R4440 is available to set to each test mode by UP key or DOWN key as follows.

#### 1-1. Key and functions vaild in test mode

STEP	Description	Track No. display
1	STOP MODE after setting TEST MODE	TRACK NO. 01
2	Turn Rotary-tray with opening it, and shows time of tray-open.	TRACK NO. 02
3	Turn Rotary-tray with closing it, and shows time of tray-close.	TRACK NO. 03
4	(1) Focus servo ..... ON. (2) Tracking servo ..... ON. (3) Feed servo ..... ON.	TRACK NO. 04 ↓ ▶ Time lights
5	(1) Tracking ..... OFF. (2) Focus servo ..... ON. (3) Tracking servo ..... OFF. (4) Feed servo ..... OFF.	TRACK NO. 05    lights
6	Same step "4".	TRACK NO. 06 ↓ ▶ time lights
7	Confirm position of start limit switch, shows time of setting it to on.	TRACK NO. 07
8	Set it to program mode, playback Tracking No. 7, 8 and 6 (High-speed).	

# DP-R792/R892/R4440

## CIRCUIT DESCRIPTION

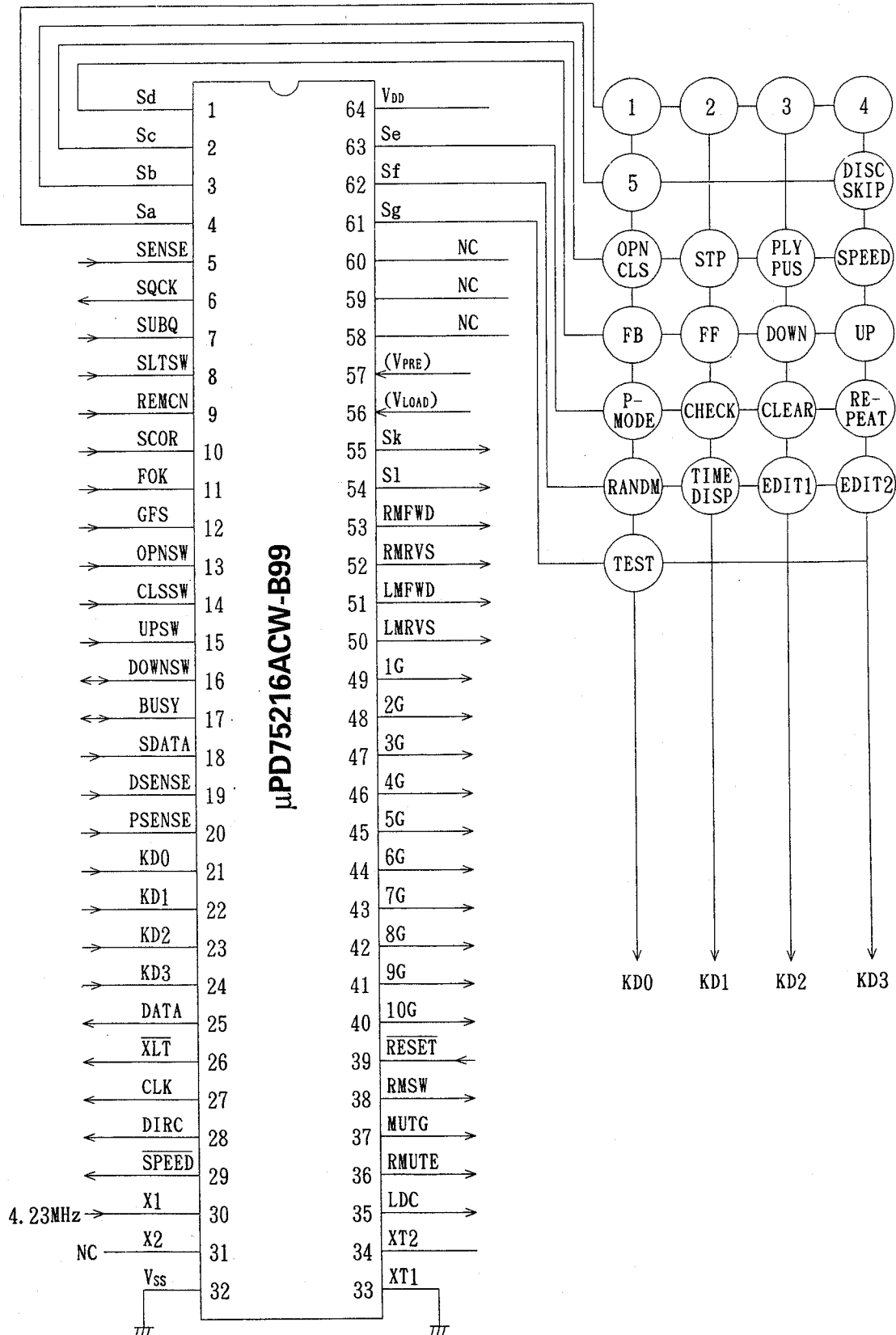
No.	Input key	Function	Track No. display
1	PLAY	(1) Focusing servo ..... ON. (2) Tracking servo ..... ON. (3) Feed servo ..... ON.	TRACK NO. <b>04</b> ▶ (PLAY) lights.
2	CHECK	(1) Focusing servo ..... ON. (2) Tracking servo ..... OFF. (3) Feed servo ..... OFF.	TRACK NO. <b>05</b> (  ) Pause lights.
3	STOP	In STOP mode. Disc is loaded.	TRACK NO. <b>01</b>
4	▶▶ (UP)	Change TEST mode (UP).	
5	◀◀ (DOWN)	Change TEST mode (DOWN).	
6	▶▶	In the PLAYBACK mode, jumps the pickup outwards (16 tracks). In the STOP mode, the pickup slightly outwards.	
7	◀◀	In the PLAYBACK mode, jumps the pickup inwards (16 tracks). In the STOP mode, the pickup slightly inwards.	
8	OPEN/CLOSE	When the tray is opened then track No. 7, 8 and 6 (High-speed) are programmed and playback. TEST mode is canceled.	
9	DISC SKIP	In SKIP mode.	
10	P-MODE	Track No. 7, 8 and 6 (High-speed) are programmed and playbaced. TEST mode is canceled when pressing it again after playback.	
11	REPEAT	The tray OPEN / CLOSE operation is available without canceling TEST mode.	
12	TIME DISP	Turn ON / OFF the FL display.	
14	SPEED*	Set the port condition to High-speed mode, and set it to normal speed when pressing SPEED key again.	
15	DISC SELECTOR	Shows time of tray-rotation. (1) ..... Clockwise a turn time. (2) ..... Counterclockwise a turn time.	

\*DP-R792 only

## CIRCUIT DESCRIPTION

### 2. Microprocesseur : $\mu$ PD75216ACW-B99 (IC5)

#### 2-1. Terminal connection diagram



# DP-R792/R892/R4440

## CIRCUIT DESCRIPTION

### 2-2. Explanation of terminals (μPD75216ACW-B99)

Pin No.	Pin name	I/O	Function
1 ~ 4	Sd-a	O	Segment (d ~ a)
5	SENSE	I	Signal detection terminal for SENSE signal from Digital Signal Processor
6	SQCK	O	Clock output of Q data input
7	SUBQ	I	Q data input
8	SLTSW	I	Start limit switch for pickup
9	REMCN	I	Remote control input
10	SCOR	I	SCOR input of Q data
11	FOK	I	Focus OK signal input
12	GFS	I	Spindle lock
13	OPNSW	I	Tray open switch
14	CLSSW	I	Tray close switch
15	UPSW	I	Mechanism-up switch
16	DOWNSW	I	Mechanism-down switch
17	BUSY	I/O	System control signal (BUSY)
18	SDATA	I/O	System control signal (DATA)
19	DSENSE	I	Disc sensor
20	PSENSE	I	Disc position sensor
21 ~ 24	KD0 ~ 3	I	Key input (0bit ~ 3bit)
25	DATA	O	Data signal to signal processor
26	XLT	O	XLT signal to signal processor
27	CLK	O	Clock signal to signal processor
28	DIRC	O	Control signal for jump brake
29	SPEED	O	Double-speed playback control (H : NORMAL / L : DOUBLE)
30	X1	I	Clock input (4.23MHz)
31	X2	I	Non-connection
32	Vss	-	Ground
33,34	XT1,2	I	Non-connection
35	LDC	O	Laser on
36	RMUTE	O	Analog mute
37	MUTG	O	Digital mute
38	RMSW	O	Rotary tray motor speed-down
39	RESET	I	Reset signal input
40 ~ 49	10G ~ 1G	O	Display grid (10G ~ 1G)
50	LMRVS	O	Tray motor 1
51	LMFWD	O	Tray motor 2
52	RMRVS	O	Rotary motor 1
53	RMFWD	O	Rotary motor 2
54,55	SI,k	O	Non-connection
56	VLOAD	I	VLOAD input (-30V)
57	VPRE	I	VPRE input (-5V)
58 ~ 60	Sh ~ j	O	Non-connection
61 ~ 63	Se ~ g	O	Display segments (e ~ g)
64	VDD	-	Power supply (+5V)



## MECHANISM OPERATION DESCRIPTION

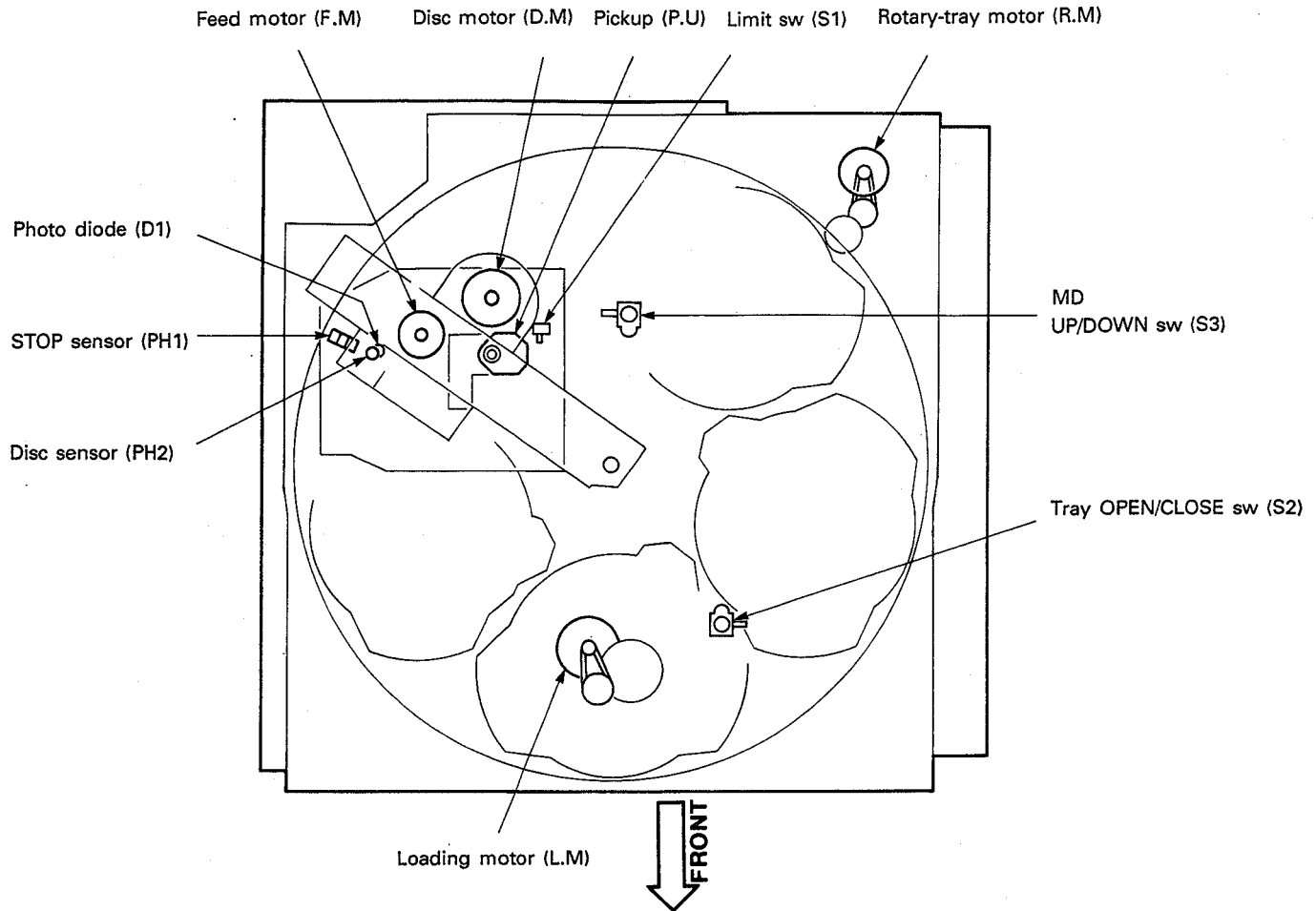


Fig. 1

### 1. Disc Detection

If rotary-tray motor (RM) is turning clockwise, the tray rotary turns same direction. Confirm check of disc presence and disc number by photo transistor (PH2). Stop position is detected by photo interrupter (PH1).

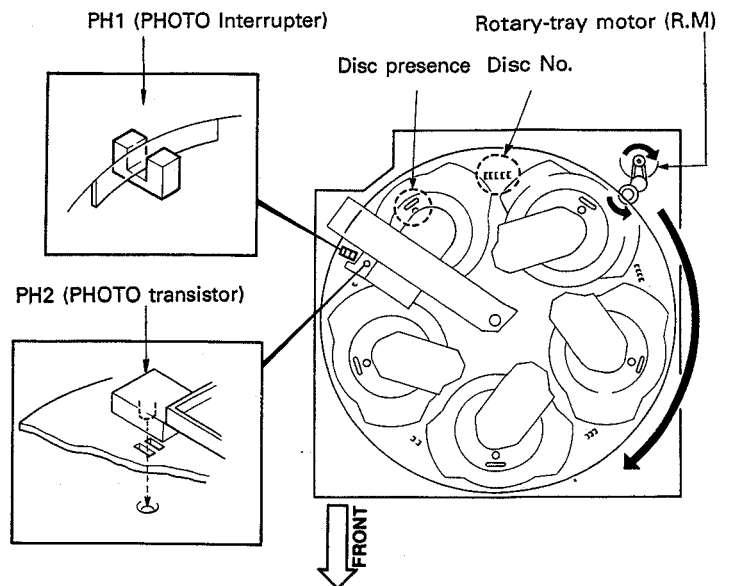


Fig. 2

## MECHANISM OPERATION DESCRIPTION

### 2. Open and Close Operation

If tray loading motor (LM,M4) turns counterclockwise, the slide gear moves frontwards with lock lever fixed the rear of the tray. And then tray open/close switch (S2) is set to open mode.

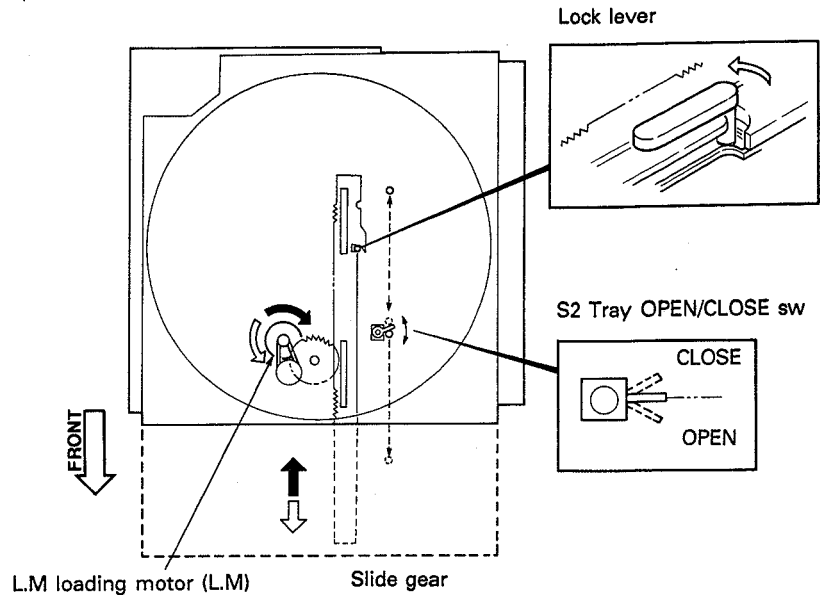


Fig. 3

If tray loading motor turns clockwise, the tray moves backwards on the way with the lock lever but slider gear goes on backwards and engages for mechanism up/down gear. Slide gear moves and the loading motor (S3) until pickup mechanism is at fully up or down position.

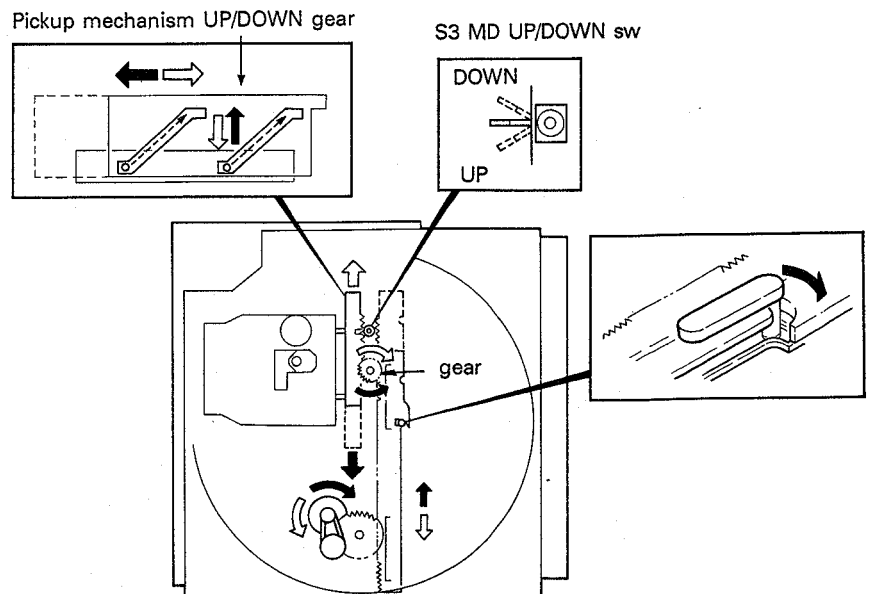


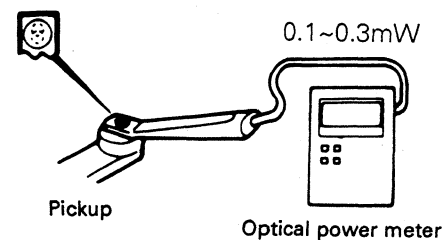
Fig. 4

## ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG
1	LASER POWER	—	Apply the sensor section of the optical power meter on the pickup lens.	Short-circuit pins TEST and turn the power on to enter the test mode. Press the MANUAL S. key(▶) to move the pickup outwards. Press the CHECK key to check that the LD emits light. Then, confirm that the display is "05".	—	On the power from 0.1 to 0.3mW, when the diffraction grating is correctly aligned with the RF level of 1.0Vp-p or more and the TE (servo open) level of 1.5Vp-p or more, the pickup is acceptable.	(a)
2	TRACKING ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF (CN9-1) CH2: TE (CN9-6)	Turn power switch off and set the unit to test mode again. Press the ▶ key to open the tray. Load a test disc and press the ▶ key. Then press the CHECK key. Confirm that the display is "05".	VR2	Symmetry between upper and lower or $DC=0\pm0.05V$	(b)
3	FOCUS ERROR BALANCE	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF(CN9-1) CH2: TE(CN9-6)	Press the PLAY key. Confirm that the display is "05".	VR1	Optimum eye pattern	(c)
4	FOCUS GAIN	Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN9 pin 2-3.	Connect a LPF to CN9 pin 2-3 to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	VR3	Two VTVMs should read the same value.	(d)
5	TRACKING GAIN	Test disc Type 4 Apply signal of 1.0kHz, 0.1Vrms to CN9 pin 5-6.	Connect an LPF to CN9 pin 5-6 to which connect an oscilloscope or two AC voltmeters.	Press the PLAY key. Confirm that the display is "05".	VR4	Two VTVMs should read the same value.	(d)

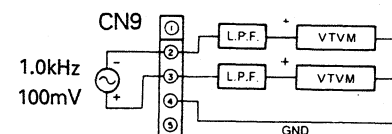
(Note) Type 4 disc: SONY YEDS-18 Test Disc or equivalent.  
LPF: Around 47kΩ+390pF or so.  
Steps 1~5 are in Test Mode.

### (a) Laser Power

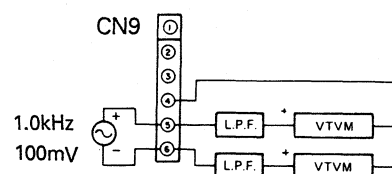


### (d) Focus Gain and Tracking Gain Adj.

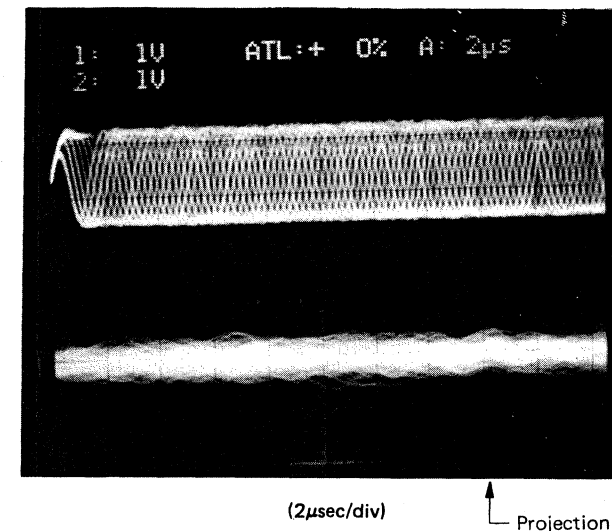
#### Focus gain Adj.



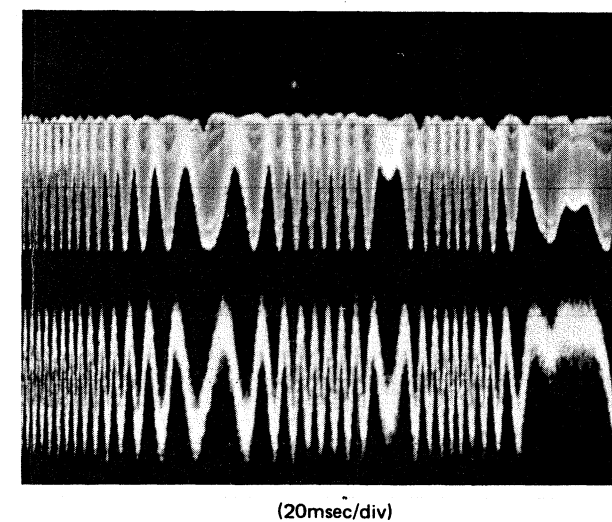
#### Tracking gain Adj.



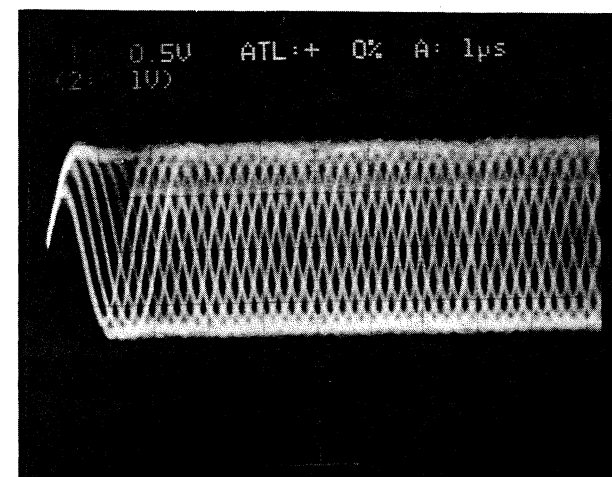
## ADJUSTMENT



- RF signal and E.Spot signal in test mode (PLAY).
- If the diffraction grating has been adjusted properly, the influence of triggering is observed on the E.Spot waveform of approx. 18μs after RF signal, in the form of a projection.

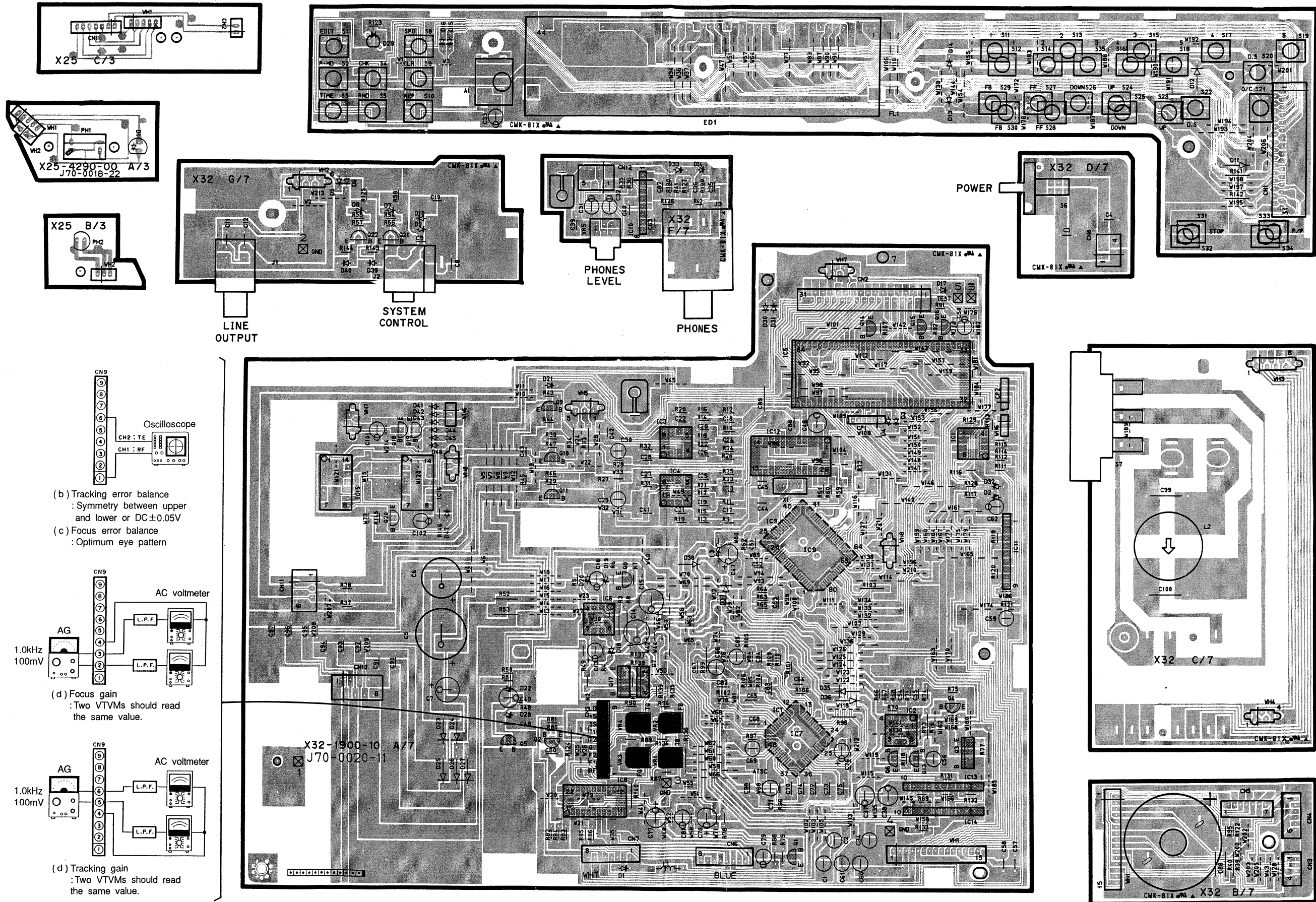


- RF signal and T.Error signal; in test mode (Focusing ON). (Disc type 4)
- Adjust T.Error so that the waveform is symmetrical above and below 0V. (VR2)

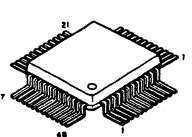


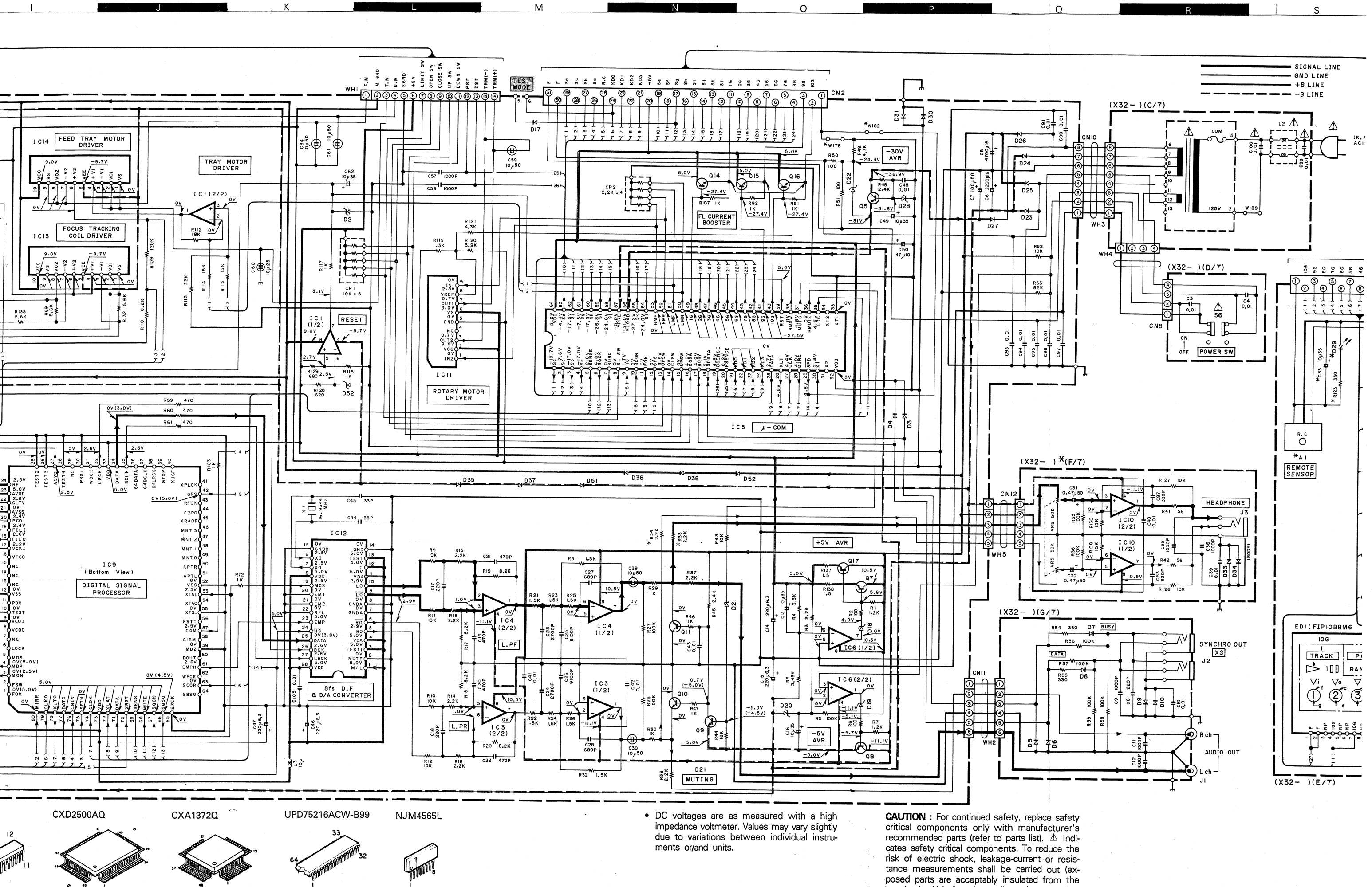
- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset adjustments so that each of the center cross points are focused into one point on the display. The crossing points above and below the center shall also be displayed clearly.

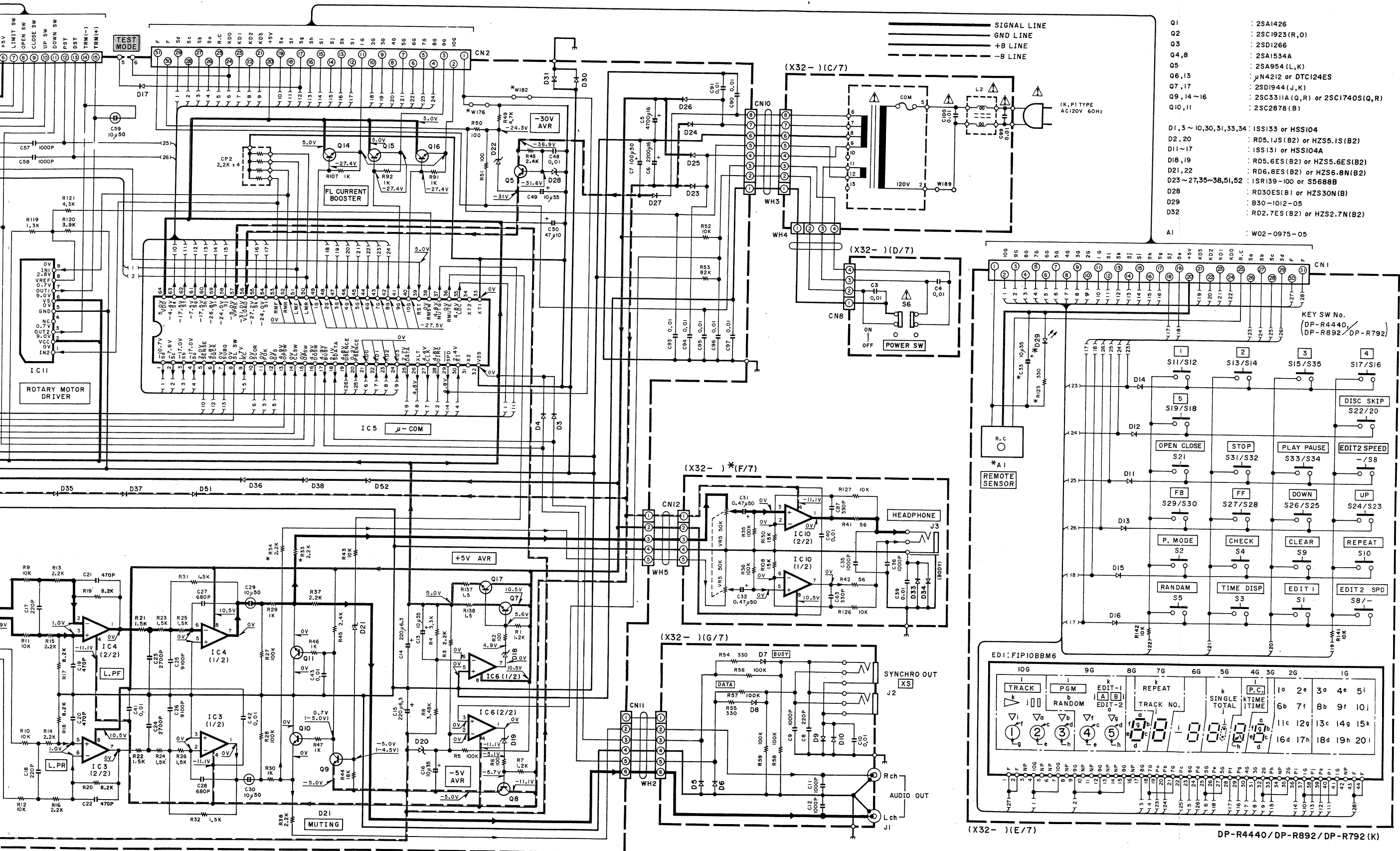
# PC BOARD (COMPONENT SIDE VIEW )











M4565L

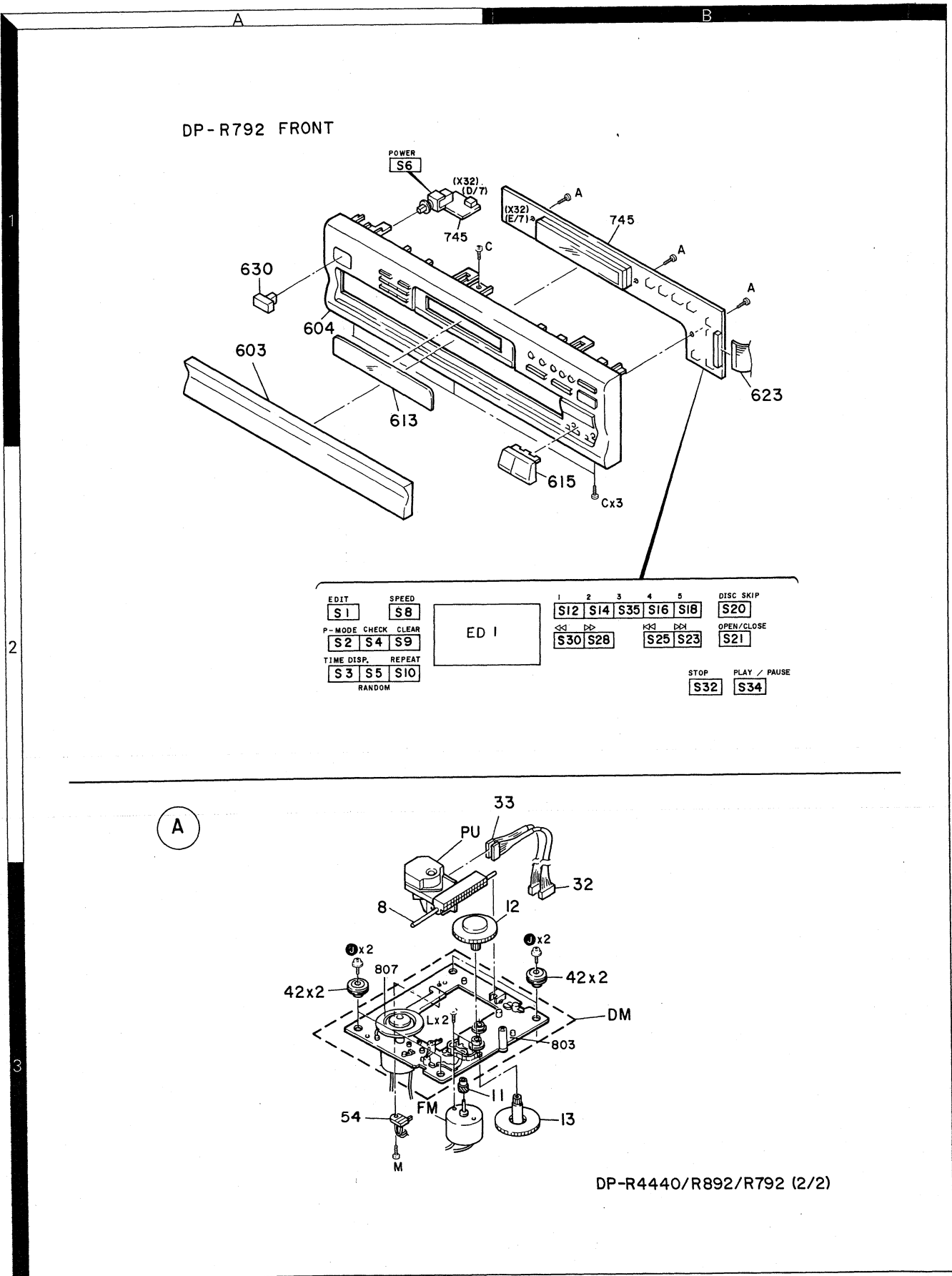
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

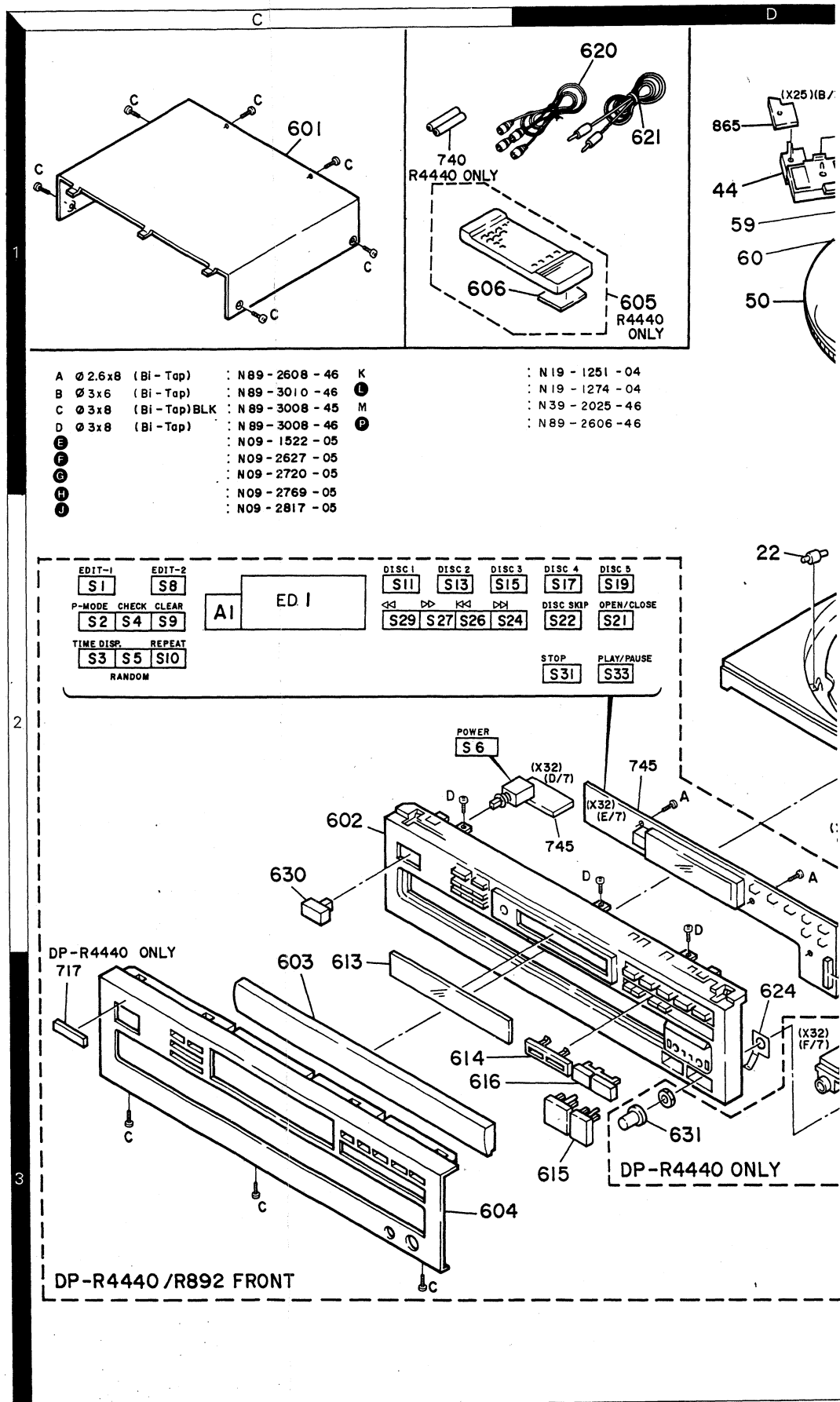
Y22-2840-10

**DP-R792/R892/R4440**  
**KENWOOD**

EXPLODED VIEW (MECHANISM)



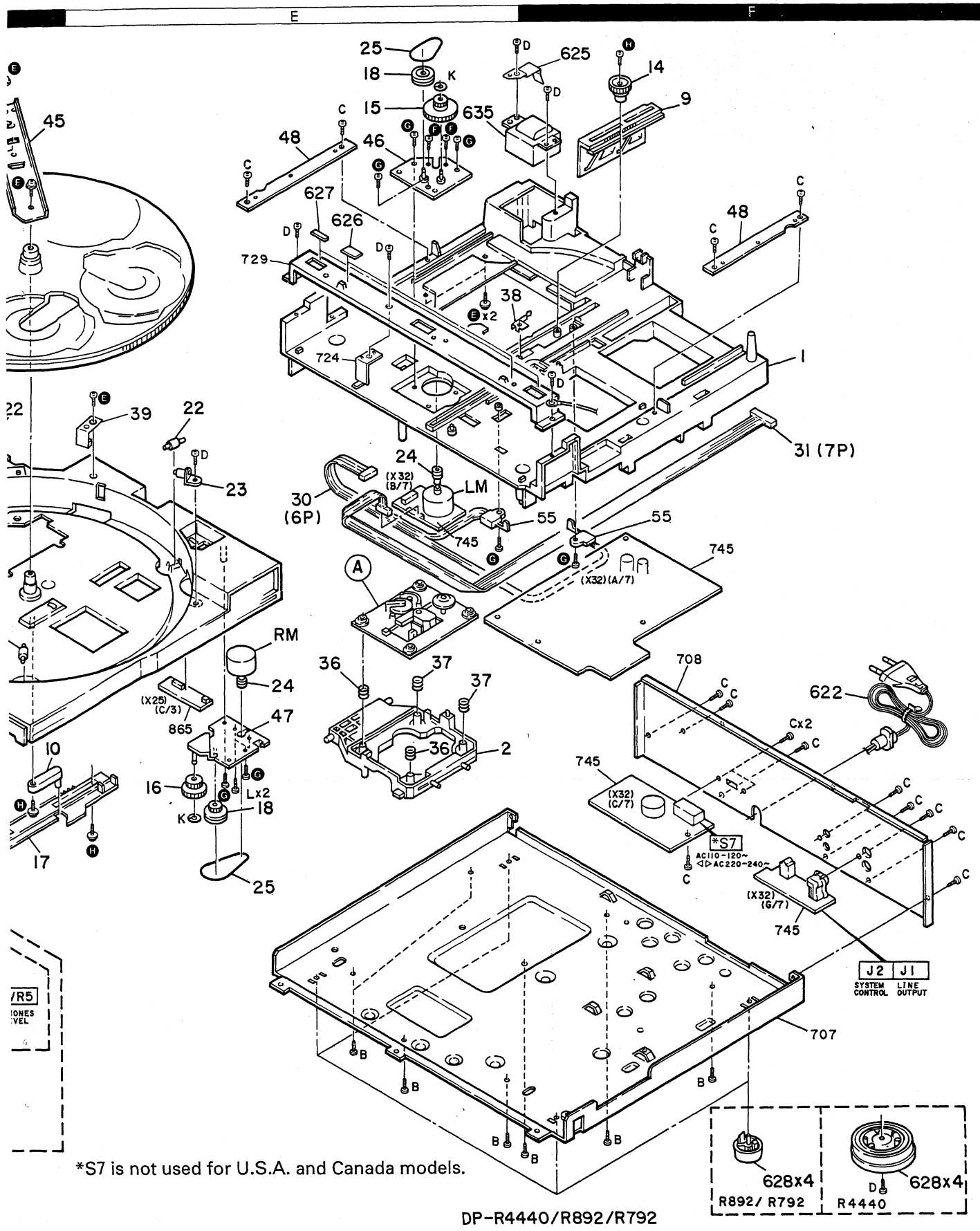
Parts with the exploded numbers larger than 700 are not supplied.







New Parts		Les articles non mentionnés dans le Parts No. ne sont pas fournis.		Teile ohne Parts No. werden nicht geliefert.	
Ref. No.	Address	Parts No.	Description	Re-nation marks	仕向備考
参照番号	位置	部品番号	部品名 / 規格		
601	1C	A01-1912-01	METALLIC CABINET		
603	1A	* A29-0307-02	PANEL ASSY*(TRAY)		
604	1A	* A60-0177-02	PANEL ASSY		
613	1A	IR03-26AR-03	DRFSSING PL ATF		



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

2					
Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部 品 名 / 規 格	Re- marks 仕 向 備考	
* New Parts Parts without Parts No. are not supplied. Les articles non mentionnés dans le Parts No. ne sont pas fournis. Teile ohne Parts No. werden nicht geliefert.					
2					
-	-	H10-5144-02	POLYSTYRENE FOAMED FIXTURE	K P K P	
-	-	H10-5145-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H11-0039-04	POLYSTYRENE FOAMED BOARD		
-	-	H12-2109-04	PACKING FIXTURE		
-	-	H21-0287-04	PROTECTION SHEET		
-	-	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-	-	H50-0234-04	ITEM CARTON CASE		
628	3F	J02-0366-15	FOOT		
630	2C	K27-2004-04	KNOB (BUTTON)		
635	1E	L07-0238-15	POWER TRANSFORMER		
DP-R4440					
601	1C	A01-1909-01	METALLIC CABINET	K P K P	
602	2C	A22-1465-01	SUB PANEL		
603	3C	A29-0184-02	PANEL (TRAY)		
604	3C	A60-0175-02	PANEL		
605	1D	A70-0508-05	REMOTE CONTROLLER ASSY		
606	1C	A09-0114-08	BATTERY COVER		
613	3C	B03-2686-04	DRESSING PLATE		
614	3C	B07-1976-03	ESCUTCHEON		
615	3D	B07-1977-04	ESCUTCHEON		
616	3D	B07-1978-03	ESCUTCHEON		
-	-	B46-0092-13	WARRANTY CARD	K P K P	
-	-	B46-0121-13	WARRANTY CARD		
-	-	B46-0197-00	QUESTIONNAIRE CARD		
-	-	B60-0741-00	INSTRUCTION MANUAL		
-	-	B60-0742-00	INSTRUCTION MANUAL		
620	1D	E30-0505-05	AUDIO CORD		
621	1D	E30-1392-05	CORD WITH PLUG		
622	2F	E30-2689-05	AC POWER CORD		
623	3D	E35-0341-05	WIRING HARNESS		
624	3D	G02-0990-04	FLAT SPRING		
625	1E	G02-0991-04	FLAT SPRING	K P K P	
626	1E	G11-2074-04	CUSHION		
-	-	H10-5084-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H10-5085-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H11-0040-04	POLYSTYRENE FOAMED BOARD		
-	-	H12-2108-04	PACKING FIXTURE		
-	-	H21-0287-04	PROTECTION SHEET		
-	-	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-	-	H50-0233-04	ITEM CARTON CASE		
628	3F	J02-1034-05	FOOT		
630	2C	K27-2004-04	KNOB (BUTTON)	K P K P	
631	3D	K29-3632-04	KNOB		
635	1E	L07-0238-15	POWER TRANSFORMER		
MECHANISM PCB (X25-4290-10)					
PH1		T95-0121-05	OPTO ISOLATOR		
1					
* New Parts Parts without Parts No. are not supplied. Les articles non mentionnés dans le Parts No. ne sont pas fournis. Teile ohne Parts No. werden nicht geliefert.					
1					
DP-R792					
601	1C	A01-1912-01	METALLIC CABINET		K P K P
603	1A	A29-0307-02	PANEL ASSY (TRAY)		
604	1A	A60-0177-02	PANEL ASSY		
613	1A	B03-2688-03	DRESSING PLATE		
615	2B	B07-1980-04	ESCUTCHEON		
-	-	B46-0092-13	WARRANTY CARD		
-	-	B46-0121-13	QUESTIONNAIRE CARD		
-	-	B46-0197-00	INSTRUCTION MANUAL (ENGLISH)		
-	-	B60-0746-00	INSTRUCTION MANUAL (FRENCH)		
620	1D	E30-0505-05	AUDIO CORD	K P K P	
621	1D	E30-1392-05	CORD WITH PLUG		
622	2F	E30-2689-05	AC POWER CORD		
623	1B	E35-0341-05	WIRING HARNESS		
625	1E	G02-0991-04	FLAT SPRING		
626	1E	G11-2066-04	CUSHION		
627	1E	G11-2074-04	CUSHION		
-	-	H10-5086-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H10-5087-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H11-0039-04	POLYSTYRENE FOAMED BOARD		
-	-	H12-2109-04	PACKING FIXTURE	K P K P	
-	-	H21-0287-04	PROTECTION SHEET		
-	-	H25-0232-04	PROTECTION BAG (235X350X0.03)		
-	-	H25-0368-04	ITEM CARTON CASE		
-	-	H50-0235-04	ITEM CARTON CASE		
628	3F	J02-0366-15	FOOT		
630	1A	K29-4140-04	KNOB		
635	1E	L07-0238-15	POWER TRANSFORMER		
DP-R892					
601	1C	A01-1926-01	METALLIC CABINET		K P K P
602	2C	A22-1465-01	SUB PANEL		
603	3C	A29-0184-02	PANEL (TRAY)		
604	3C	A60-0176-02	PANEL		
613	3C	B03-2687-04	DRESSING PLATE		
614	3C	B07-1976-03	ESCUTCHEON		
615	3D	B07-1977-04	ESCUTCHEON		
616	3D	B07-1978-03	ESCUTCHEON		
-	-	B46-0092-13	WARRANTY CARD		
-	-	B46-0121-13	QUESTIONNAIRE CARD	K P K P	
-	-	B46-0197-00	QUESTIONNAIRE CARD		
-	-	B60-0744-00	INSTRUCTION MANUAL (ENGLISH)		
-	-	B60-0745-00	INSTRUCTION MANUAL (FRENCH)		
620	1D	E30-0505-05	AUDIO CORD		
621	1D	E30-1392-05	CORD WITH PLUG		
622	2F	E30-2689-05	AC POWER CORD		
623	3D	E35-0341-05	WIRING HARNESS		
625	1E	G02-0991-04	FLAT SPRING		
626	1E	G11-2074-04	CUSHION		
L:Scandinavia K:USA P:Canada Y:PX(Far East, Hawaii) T:England E:Europe Y:AMFES(Europe) X:Australia M:Other Areas					
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## PARTS LIST

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Teile ohne Parts No. werden nicht geliefert.

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Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 规格	Re- marks 向備考
C79			CB04KW1V100M	ELECTRO	
C80			CC45SLH330J	CERAMIC	35WV
C81			CG04KW1A101M	ELECTRO	J
C82, 83			CC45SLH101J	CERAMIC	100V
C84			CG92FM1H103J	MYLAR	J
C85			C90-1333-05	NP-ELEC	0.010UF
C86			CC45SLH331J	CERAMIC	10WV
C87			C91-0769-05	CERAMIC	330PF
C88			CK45FF1H103Z	CERAMIC	0.01UF
C90, 91			CK45FF1H103Z	CERAMIC	K
C93-97					0.010UF Z
C98			CF92SF1H564J	MF	22UF
C99			C91-0971-05	FILM	0.56UF
C100			CC45SLH050C	CERAMIC	J
C103			CC45SLH181J	CERAMIC	250WV
C104			CG92FM1H103J	MYLAR	5.0PF
C105					C
C106					180PF
C107					J
C108					0.010UF
C109					J
C110					J
C111					J
C112					J
C113					J
C114					J
C115					J
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C195					

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792 : DP-R792  
892 : DP-R892  
4440 : DP-R4440

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- marks 向標
D1			GL360	PHOTO DIODE	
D2			PT361F	PHOTO TRANSISTOR	
<b>CONTROL (X32-1900-XX) -10 : DP-R792 -11 : DP-R892 -12 : DP-R4440</b>					
C29			B30-1012-05	LED	792
C30			C90-1332-05	NP-ELEC	
C31			CK45FB1H103Z	CERAMIC	
C32			CE04KW1C472M	ELECTRØ	
C33			CE04KW1C222M	ELECTRØ	
C34			CE04KW1H101M	ELECTRØ	
C35			CC45ESL1H221J	CERAMIC	
C36			CK45FB1H102K	CERAMIC	
C37			CK45FB1H103Z	CERAMIC	
C38			C92FM1H103J	MYLAR	
C39			CE04KW1V100M	ELECTRØ	
C40			CE04KWJ221M	ELECTRØ	
C41			CE04KW1V100M	ELECTRØ	
C42			C92FM1H221K	MYLAR	
C43			CK45FB1H471K	CERAMIC	
C44			C92FM1H121J	MYLAR	
C45			C92FM1H681J	MYLAR	
C46			C90-1332-05	NP-ELEC	
C47			CE04KW1HR47M	ELECTRØ	
C48			CE04KW1V100M	ELECTRØ	
C49			CK45FB1H102K	CERAMIC	
C50			CK45FB1H103Z	CERAMIC	
C51			CC45FCH1H330J	CERAMIC	
C52			CE04KWJ221M	ELECTRØ	
C53			CK45FB1H103Z	CERAMIC	
C54			CE04KW1V100M	ELECTRØ	
C55			CE04KW1A470M	ELECTRØ	
C56			C92FM1H103J	MYLAR	
C57			C92FM1H152J	MYLAR	
C58			CF92FV1H473J	MF	
C59			CK45FB1H473Z	CERAMIC	
C60			CK45FB1H332K	CERAMIC	
C61			C90-1332-05	NP-ELEC	
C62			CK45FB1H102K	CERAMIC	
C63			C90-1332-05	NP-ELEC	
C64			CE04KW1V100M	ELECTRØ	
C65			CC45FSL1H331J	CERAMIC	
C66			C92FM1H103J	MYLAR	
C67			CF92RV1H333J	MF	
C68			C90-1332-05	NP-ELEC	
C69			CF92RV1H104J	MF	
C70			C90-1349-05	NP-ELEC	
C71			C92FM1H223J	MYLAR	
C72			C90-1349-05	NP-ELEC	
C73			CK45FB1H102K	CERAMIC	
C74			C92FM1H103J	MYLAR	
C75			C92FM1H222J	MYLAR	
C76			CE04KW1HR47M	ELECTRØ	
C77			CE04KWJ221M	ELECTRØ	

	L:Scandinavia	K:USA	P:Canada	792 : DP-R792	892 : DP-R892	4440 : DP-R4440
	Y:PX(Far East, Hawaii)	T:England	E:Europe			
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5

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
S33	20	S40-1064-05	PUSH SWITCH(P.P)	892,4440
S34	2B	S40-1064-05	PUSH SWITCH(P.P)	792
S35	2B	S40-1064-05	PUSH SWITCH(3)	792
D1		HSS104	DIODE	
D1		1SS133	DIODE	
D2		HZS5.1S(B2)	ZENER DIODE	
D2		RDS.1JS(B2)	ZENER DIODE	
D3	-10	HSS104	DIODE	
D3	-10	1SS133	DIODE	
D11	-17	HSS104A	DIODE	
D11	-17	1SS131	DIODE	
D18	19	HZS5.6N(B2)	ZENER DIODE	
D18	19	RDS.6ES(B2)	ZENER DIODE	
D20		HZS5.1S(B2)	ZENER DIODE	
D20		RDS.1JS(B2)	ZENER DIODE	
D21	22	HZS6.8N(B2)	ZENER DIODE	
D21	22	RDS.8ES(B2)	ZENER DIODE	
D23	-27	S5688B	DIODE	
D23	-27	1SR139-100	DIODE	
D28		HZS30N(B)	ZENER DIODE	
D28		RDS0ES(B)	ZENER DIODE	
D29		B30-1012-05	ZENER DIODE	
D30	31	HSS104	DIODE	792
D30	31	1SS133	DIODE	
D32		HZS2.7N(B2)	ZENER DIODE	
D32		RDS2.7ES(B2)	ZENER DIODE	
D33	34	HSS104	DIODE	
D33	34	1SS133	DIODE	
D35	-38	S5688B	DIODE	
D35	-38	1SR139-100	DIODE	
E01		PIP10BBM6	FLUORESCENT INDICATOR TUBE	
IC1	-4	NJM4565D	IC(OP AMP X2)	
IC1	-4	RC4565D	IC(OP AMP X2)	
IC5		UPD75216ACW-B99	IC(MICROPROCESSOR)	
IC6		NJM4558D	IC(OP AMP X2)	
IC7		CKA1372Q	IC(CD RF SERVØ)	
IC8		CKA1571S	IC(CD RF AMP)	
IC9		CXD2500AQ	IC(SIGNAL PROCESSOR)	
IC10		NJM4565L	IC(OP AMP X2)	
IC11		TA8409S	IC(MOTOR CONTROL)	
IC12		TC9237N	IC(D/A CONVERTER)	
IC13		LA6510	IC(DUAL POWER OP AMP)	
IC14		LA6510	IC(DUAL POWER OP AMP)	
IC14		TA8410AK	IC(POWER OP AMP)	
Q1		2SA1426	TRANSISTOR	
Q2		2SC1923(R,Ø)	TRANSISTOR	
Q3		2SD1266	TRANSISTOR	
Q4		2SA1534A	TRANSISTOR	
Q5		2SA954(L,K)	TRANSISTOR	
Q6		DTC124ES	DIGITAL TRANSISTOR	
Q6		UN4212	TRANSISTOR	
Q7		2SD1944(J,K)	TRANSISTOR	
Q8		2SA1534A	TRANSISTOR	
Q9		2SC1740S(Q,R)	TRANSISTOR	

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792 : DP-R792 892 : DP-R892 4440 : DP-R4440

△ indicates safety critical components.

× New Parts

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6

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
Q9		2SC3311A(Q,R)	TRANSISTOR	
Q10	11	2SC2878(B)	TRANSISTOR	
Q13		DTC124ES	DIGITAL TRANSISTOR	
Q13		UN4212	TRANSISTOR	
Q14	-16	2SC1740S(Q,R)	TRANSISTOR	
Q14	-16	2SC3311A(Q,R)	TRANSISTOR	
Q17		2SD1944(J,K)	TRANSISTOR	
A1	2C	W02-0975-05	ELECTRIC CIRCUIT MODULE	4440
MECHANISM (X92-1610-10)				
1	1F	A10-2804-11	CHASSIS	
2		A15-0071-08	FRAME	
8	3A	D10-2325-04	RØD	
9	1F	D10-3111-03	SLIDER	
10	2D	D10-3112-04	ARM	
11	3B	D13-0879-08	GEAR(MØTØR)	
12	3B	D13-0880-18	GEAR(IDLER)	
13	3B	D13-0881-08	GEAR (FEED)	
14	1F	D13-0905-04	GEAR (IDLER)	
15	1E	D13-0906-04	GEAR (MAIN)	
16	2E	D13-0907-04	GEAR (ROTARY)	
17	3D	D13-0908-03	LACK (GEAR)	
18	1E,2E	D13-0928-04	GEAR	
22	2D	D14-0327-05	ROLLER ASSY	
23	1D,2E	D14-0330-05	ROLLER ASSY	
24	2E	D15-0296-04	MØTØR PULLEY	
25	1E,3E	D16-0282-04	BELT	
30	2E	E31-7919-05	WIRING HARNESS(6P) (SWITCH)	
31	2F	E31-7920-05	WIRING HARNESS(8P) (WHITE/RED)	
32	3B	E31-7921-05	WIRING HARNESS(PU, WHITE/BULE)	
33	2B	E31-7922-05	WIRING HARNESS(PU, WHITE/RED)	
36	2E	G01-3321-18	COMPRESSION SPRING	
37	2E	G01-3322-18	COMPRESSION SPRING	
38	1E	G02-0927-04	FLAT SPRING	
39	1E	J19-3437-04	BRACKET	
42	3A,3B	J02-1058-15	INSULATOR	
43	1D	J11-0173-23	CLAMPER	
44	1D	J19-3351-03	HOLDER	
45	1D	J19-3352-13	BRACKET	
46	1E	J21-5673-04	MOUNTING HARDWARE ASSY	
47	2E	J21-5675-04	MOUNTING HARDWARE ASSY	
48	1E,1F	J90-0667-04	RAIL	
49	2D	J99-0095-11	TRAY(SLIDE)	
50	1D	J99-0096-01	TRAY(ROTARY)	
54	3A	S33-1022-05	LEVER SWITCH	
55	2F	S33-2061-05	LEVER SWITCH	
59	1D	T50-1036-14	YØKE	
60	1D	T99-0222-05	MAGNET	
ØM	3B	A11-0679-18	SUB CHASSIS ASSY(DISC MØTØR)	
ØM	3A	T42-0586-05	DC MØTØR	
ØM	2E	T42-0524-05	DC MØTØR	
ØU	2A	T25-0011-05	ØPTICAL PICKUP HEAD	
ØM	2E	T42-0577-05	DC MØTØR	

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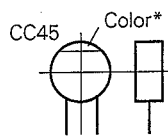
# DP-R792/R892/R4440

## PARTS LIST

### CAPACITORS

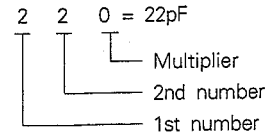
CC 45 TH 1H 220 J  
1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating  
2 = Shape ... round, square, ect. 5 = Value  
3 = Temp. coefficient 6 = Tolerance



#### Capacitor value

- 010 = 1pF  
100 = 10pF  
101 = 100pF  
102 = 1000pF = 0.001μF  
103 = 0.01μF



#### Temperature coefficient

1st Word	C	L	P	R	S	T	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	H	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60ppm/°C

#### Tolerance

Code	C	D	G	J	K	M	X	Z	P	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40 -20	+80 -20	+100 -0	More than 10μF - 10 ~ +50 Less than 4.7μF -10 ~ +75

Less than 10pF

Code	B	C	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

#### Voltage rating

2nd word 1st word	A	B	C	D	E	F	G	H	J	K	V
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	-
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	-

# DP-R792/R892/R4440

## SPECIFICATIONS

### [Format]

System ..... Compact disc digital audio  
Laser ..... Semiconductor laser  
Playing rotation ..... 200~500 rpm (CLV)

### [D/A convertors]

D/A conversion ..... 1 bit  
Oversampling ..... 8 fs

### [Audio]

Frequency response ..... 4 Hz~20 kHz,  $\pm 1.0$  dB  
Signal to noise ratio ..... More than 94 dB  
Dynamic range ..... More than 92 dB  
Total harmonic distortion ..... Less than 0.005% at 1 kHz  
Channel separation ..... More than 90 dB at 1kHz  
Wow & Flutter ..... Unmeasurable limit  
Output level / impedance ..... 1.2 V / 3.3 k $\Omega$   
Headphone output : DP-R4440 ..... 20 mW (16  $\Omega$ )

### [General]

Power consumption ..... 15 W  
Dimensions ..... W : 440 mm (17-5/16")  
: DP-R792 / DP-R892 ..... H : 120 mm (4-3/4")  
: DP-R4440 ..... H : 128 mm (5-1/16")  
: DP-R792 ..... D : 395 mm (15-9/16")  
: DP-R892 ..... D : 391 mm (15-3/8")  
: DP-R4440 ..... D : 396 mm (15-9/16")  
Weight (Net) : DP-R792 ..... 5.5 kg (12.1 lb)  
: DP-R892 / DP-R4440 ..... 5.6 kg (12.3 lb)

### Note:

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

### Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

## KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

### KENWOOD U.S.A. CORPORATION

2201 East Dominguez Street, Long Beach, CA 90810;  
550 Clark Drive, Mount Olive, NJ 07828, U.S.A.

### KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

### TRIO-KENWOOD U.K. LTD.

KENWOOD HOUSE, Dwight Road, Watford, Herts., WD1 8EB United Kingdom

### KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteenweg 418 B-1930 Zaventem, Belgium

### KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker-Str. 15, 6056 Heusenstamm, Germany

### TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

### KENWOOD LINEAR S.p.A.

20125, MILANO-VIA ARBE, 50, ITALY

### KENWOOD ELECTRONICS AUSTRALIA PTY. LTD. (A.C.N 001 499 074)

P.O. BOX 504, 8 FIGTREE DRIVE, AUSTRALIA CENTRE, HOMEBUSH, N.S.W. 2140, AUSTRALIA

### KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong